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IDS Information

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M844	12-29-2003	13	<input checked="" type="checkbox"/>	03-08-2006 15:41:10 KReichle
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UPDATE

Day : Sunday
 Date: 3/19/2006

Time: 12:20:06


PALM INTRANET
Inventor Name Search Result

Your Search was:

Last Name = EHRNSPERGER

First Name = BRUNO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>10645362</u>	Not Issued	30	08/21/2003	Absorbent cores for absorbent diapers having reduced thickness and improved liquid handling and retention performance and comprising a super absorbent polymer	EHRNSPERGER, BRUNO
<u>60649539</u>	Not Issued	159	02/04/2005	Water swellable material	EHRNSPERGER, BRUNO
<u>10168879</u>	6932797	150	06/21/2002	LIQUID REMOVAL SYSTEM WHICH IS COMPRESSIBLE IN THE LONGITUDINAL AND/OR IN THE TRANSVERSE DIRECTION	EHRNSPERGER, BRUNO HOHANNES
<u>09106225</u>	6186991	150	06/29/1998	DISPOSABLE ARTICLE HAVING A RESPONSIVE SYSTEM INCLUDING A MECHANICAL ACTUATOR	EHRNSPERGER, BRUNO J.
<u>09106423</u>	6160200	150	06/29/1998	DIRECTIONALLY PREFERENTIAL WASTE PASSAGE MEMBER FOR USE WITH DISPOSABLE ABSORBENT ARTICLE	EHRNSPERGER, BRUNO J.
<u>09106424</u>	6160198	150	06/29/1998	DISPOSABLE ARTICLE HAVING A DISCONTINUOUS RESPONSIVE SYSTEM	EHRNSPERGER, BRUNO J.
<u>09107563</u>	6093869	150	06/29/1998	DISPOSABLE ARTICLE HAVING A RESPONSIVE SYSTEM INCLUDING A FEEDBACK CONTROL LOOP	EHRNSPERGER, BRUNO J.
<u>09342766</u>	6384296	150	06/29/1999	DISPOSABLE ARTICLE HAVING A RESPONSIVE SYSTEM INCLUDING AN	EHRNSPERGER, BRUNO J.

				ELECTRICAL ACTUATOR	
<u>09342785</u>	6433244	150	06/29/1999	DISPOSABLE TREATMENT ARTICLE HAVING A RESPONSIVE SYSTEM	EHRNSPERGER, BRUNO J.
<u>09381928</u>	6437213	150	09/27/1999	ABSORBENT ARTICLE HAVING IMPROVED FLUID ACQUISITION PERFORMANCE	EHRNSPERGER, BRUNO JOHANNES
<u>09646076</u>	Not Issued	161	09/13/2000	Liquid distribution materials with improved distribution properties under sub-saturation	EHRNSPERGER, BRUNO JOHANNES
<u>09674053</u>	6720471	150	10/25/2000	ABSORBENT ARTICLES HAVING REDUCED REWET WITH DISTRIBUTION MATERIALS POSITIONED UNDERNEATH STORAGE MATERIAL	EHRNSPERGER, BRUNO JOHANNES
<u>09674057</u>	6713661	150	10/25/2000	ABSORBENT ARTICLES PROVIDING IMPROVED FIT WHEN WET	EHRNSPERGER, BRUNO JOHANNES
<u>09674225</u>	6664439	150	10/27/2000	ABSORBENT ARTICLES WITH DISTRIBUTION MATERIALS POSITIONED UNDERNEATH STORAGE MATERIAL	EHRNSPERGER, BRUNO JOHANNES
<u>09720164</u>	6500337	150	12/20/2000	METHOD FOR OIL REMOVAL AND TRANSPORT, AND DEVICE FOR OIL REMOVAL AND TRANSPORT	EHRNSPERGER, BRUNO JOHANNES
<u>09720165</u>	Not Issued	168	12/20/2000	Liquid transfer device, and use of the device for irrigation	EHRNSPERGER, BRUNO JOHANNES
<u>09720167</u>	6727403	150	12/20/2000	ABSORBENT ARTICLE EXHIBITING HIGH SUSTAINED ACQUISITION RATES	EHRNSPERGER, BRUNO JOHANNES
<u>09720171</u>	Not Issued	161	12/20/2000	Device for absorbing or collecting a liquid	EHRNSPERGER, BRUNO JOHANNES
<u>09720187</u>	6811842	150	12/20/2000	LIQUID TRANSPORT MEMBER FOR HIGH FLUX RATES BETWEEN TWO PORT REGIONS	EHRNSPERGER, BRUNO JOHANNES
<u>09720188</u>	Not Issued	168	12/20/2000	Liquid transport member for high flux rates against gravity	EHRNSPERGER, BRUNO JOHANNES
<u>09720189</u>	Not Issued	168	12/20/2000	Liquid transport member having high permeability bulk regions	EHRNSPERGER, BRUNO JOHANNES

				and high threshold pressure port regions	
<u>09720191</u>	6545194	150	12/20/2000	DEVICE FOR MANAGING BODY FLUIDS COMPRISING A FAST ACQUIRING LIQUID HANDLING MEMBER THAT EXPANDS UPON LIQUID ACQUISITION AND CONTRACTS UPON LIQUID RELEASE	EHRNSPERGER, BRUNO JOHANNES
<u>09720192</u>	6764476	150	12/20/2000	ABSORBENT ARTICLE COMPRISING A LIQUID HANDLING MEMBER THAT RAPIDLY DISTRIBUTES ACQUIRED LIQUID	EHRNSPERGER, BRUNO JOHANNES
<u>09720223</u>	6497689	150	12/20/2000	DEVICE FOR HANDLING BODY LIQUIDS WHICH TRANSPORTS BODY LIQUID BY SIPHONING	EHRNSPERGER, BRUNO JOHANNES
<u>09720224</u>	6659992	150	12/20/2000	ABSORBENT ARTICLE INSTANTEOUSLY STORING LIQUID IN A PREDEFINED PATTERN	EHRNSPERGER, BRUNO JOHANNES
<u>09720225</u>	6506960	150	12/20/2000	ABSORBENT ARTICLE COMPRISING A LIQUID HANDLING MEMBER HAVING HIGH SUCTION AND HIGH PERMEABILITY	EHRNSPERGER, BRUNO JOHANNES
<u>09778371</u>	6791004	150	02/07/2001	ABSORBENT ARTICLE WITH THERMAL CELL ACTUATOR	EHRNSPERGER, BRUNO JOHANNES
<u>09778375</u>	6989471	150	02/07/2001	ABSORBENT ARTICLE WITH PHASE CHANGE MATERIAL	EHRNSPERGER, BRUNO JOHANNES
<u>09849554</u>	6855173	150	05/04/2001	USE OF ABSORBENT MATERIALS TO SEPARATE WATER FROM LIOPHILIC FLUID	EHRNSPERGER, BRUNO JOHANNES
<u>09857742</u>	6683229	150	08/08/2001	DISPOSABLE ABSORBENT ARTICLE STORING LIQUID IN A CONSTANT PATTERN	EHRNSPERGER, BRUNO JOHANNES
<u>10168877</u>	Not Issued	41	11/26/2002	Liquid handling member with inner materials having good creep recovery and high expansion factor	EHRNSPERGER, BRUNO JOHANNES
<u>10168878</u>	Not	41	03/07/2003	Liquid handling member with a	EHRNSPERGER,

	Issued			membrane assembly comprising a membrane wetting region	BRUNO JOHANNES
<u>10168884</u>	Not Issued	41	06/21/2002	Liquid removal system having reduced dimensions and reduced weight	EHRNSPERGER, BRUNO JOHANNES
<u>10168885</u>	Not Issued	161	06/21/2002	Hygiene article comprising a membrane containing interface device and body adhesives	EHRNSPERGER, BRUNO JOHANNES
<u>10168886</u>	6849065	150	06/21/2002	LIQUID REMOVAL SYSTEM HAVING IMPROVED DRYNESS OF THE USER FACING SURFACE	EHRNSPERGER, BRUNO JOHANNES
<u>10168887</u>	Not Issued	41	06/21/2002	Liquid handling systems comprising three-dimensionally shaped membranes	EHRNSPERGER, BRUNO JOHANNES
<u>10323572</u>	Not Issued	71	12/18/2002	Disposable absorbent articles having low rewet and a reduced evaporation from the core through the topsheet	EHRNSPERGER, BRUNO JOHANNES
<u>10325235</u>	Not Issued	71	12/19/2002	Absorbent article with increased convective gas flow rates therethrough	EHRNSPERGER, BRUNO JOHANNES
<u>10430918</u>	Not Issued	61	05/07/2003	Micro fiber textured paper tissue and method of making it	EHRNSPERGER, BRUNO JOHANNES
<u>10776839</u>	Not Issued	30	02/11/2004	Thin and dry diaper	EHRNSPERGER, BRUNO JOHANNES
<u>10776851</u>	Not Issued	71	02/11/2004	Comfortable diaper	EHRNSPERGER, BRUNO JOHANNES
<u>10881090</u>	Not Issued	71	06/30/2004	Absorbent structures comprising coated super-absorbent polymer particles	EHRNSPERGER, BRUNO JOHANNES
<u>10911797</u>	Not Issued	20	08/05/2004	Process for making water-swellable material comprising coated water-swellable polymers	EHRNSPERGER, BRUNO JOHANNES
<u>10911883</u>	Not Issued	71	08/05/2004	Process for making water-swellable material comprising coated water-swellable polymers	EHRNSPERGER, BRUNO JOHANNES
<u>10912001</u>	Not Issued	71	08/05/2004	Absorbent article comprising coated water-swellable material	EHRNSPERGER, BRUNO JOHANNES
<u>10912002</u>	Not Issued	71	08/05/2004	Coated water-swellable material	EHRNSPERGER, BRUNO JOHANNES
<u>10912004</u>	Not	71	08/05/2004	Absorbent article comprising	EHRNSPERGER,

	Issued			coated water-swellable material	BRUNO JOHANNES
<u>10912332</u>	Not Issued	30	08/05/2004	Process for making surface treated absorbent gelling material	EHRNSPERGER, BRUNO JOHANNES
<u>11195272</u>	Not Issued	30	08/02/2005	Barrier cuff for a unitary disposable absorbent article having intermediate bond for sustained fit	EHRNSPERGER, BRUNO JOHANNES
<u>11251311</u>	Not Issued	25	10/14/2005	Absorbent article including barrier leg cuff structure and absorbent core with superabsorbent material	EHRNSPERGER, BRUNO JOHANNES

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		<input type="button" value="Search"/>

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Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 20050101217 A1

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L5: Entry 1 of 8

File: PGPB

May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050101217

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050101217 A1

TITLE: System and method for dry forming absorbent cores

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Delzer, Troy	Butler	PA	US
Walter, John	Renfrew	PA	US

US-CL-CURRENT: [442/417](#); [156/276](#), [156/285](#), [442/381](#), [442/394](#)

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Data](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Drawn Up](#)

2. Document ID: US 20050013992 A1

L5: Entry 2 of 8

File: PGPB

Jan 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050013992

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050013992 A1

TITLE: Crosslinked polyamine coating on superabsorbent hydrogels

PUBLICATION-DATE: January 20, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Azad, Michael M	Charlotte	NC	US
Herfert, Norbert	Charlotte	NC	US
Mitchell, Michael	Waxhaw	NC	US
Robinson, Jim	Chesapeake	VA	US

US-CL-CURRENT: [428/327](#); [427/212](#), [428/221](#), [428/336](#), [428/402.21](#), [428/402.22](#), [428/407](#)

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw D](#)

3. Document ID: US 20040039360 A1

L5: Entry 3 of 8

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040039360

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040039360 A1

TITLE: Absorbent cores for absorbent diapers having reduced thickness and improved liquid handling and retention performance and comprising a super absorbent polymer

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ehrnsperger, Bruno	Bad Soden		DE
Schoenborn, Udo Friedel	Bad Soden		DE

US-CL-CURRENT: 604/368

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw D](#)

4. Document ID: US 20030135176 A1

L5: Entry 4 of 8

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030135176

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030135176 A1

TITLE: System and method for depositing particulate matter in absorbent cores

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Delzer, Troy	Butler	PA	US
Walter, John	Renfrew	PA	US

US-CL-CURRENT: 604/368; 604/374

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw D](#)

5. Document ID: US 20030134559 A1

L5: Entry 5 of 8

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134559
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030134559 A1

TITLE: System and method for dry forming absorbent cores

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Delzer, Troy	Butler	PA	US
Walter, John	Renfrew	PA	US

US-CL-CURRENT: 442/394

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KNC](#) | [Drawn D](#)

6. Document ID: US 20030130638 A1

L5: Entry 6 of 8

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030130638
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030130638 A1

TITLE: System and method for dry forming zoned absorbent cores

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Baker, Andrew	Lawrenceville	GA	US

US-CL-CURRENT: 604/368; 604/374

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KNC](#) | [Drawn D](#)

7. Document ID: US 6832905 B2

L5: Entry 7 of 8

File: USPT

Dec 21, 2004

US-PAT-NO: 6832905
DOCUMENT-IDENTIFIER: US 6832905 B2

TITLE: System and method for dry forming absorbent cores

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KNC](#) | [Drawn D](#)

8. Document ID: CN 1678358 A, US 20040039360 A1, EP 1393757 A1, WO 2004018007 A1, EP 1430912 A1, AU 2003262855 A1, EP 1393757 B1, DE 60201601 E, MX 2005001391 A1, DE 60201601 T2, JP 2005536292 W

L5: Entry 8 of 8

File: DWPI

Oct 5, 2005

DERWENT-ACC-NO: 2004-213966

DERWENT-WEEK: 200606

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TITLE: Absorbent core for absorbent incontinence articles, e.g. baby diapers, includes super absorbent gelling material in the form of particles having surface coating with partially hydrolyzable cationic polymer

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Terms	Documents
L4 and BBS	8

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1. Document ID: US 20050101217 A1

AB: An apparatus and method for dry forming absorbent cores are disclosed. The apparatus has a rotatable drum having a substantially cylindrical surface. A vacuum surface having one or more holes is located substantially circumferentially around at least a portion of the substantially cylindrical surface. A vacuum chamber is located within the rotatable drum. The vacuum chamber has one or more vacuum passages forming a vacuum zone subadjacent at least a portion of the vacuum surface. A first casing sheet is supplied to overlie the vacuum surface at a first location, and a fibrous material is supplied to overlie the first casing sheet at a second location. A supply of particulate matter is deposited onto the fibrous material at a third location, and a second casing sheet is supplied to overlie the first casing sheet, fibrous material and particulate matter at a fourth location, thereby forming an absorbent core composite.

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2. Document ID: US 20050013992 A1

AB: The invention concerns superabsorbent particles with a shell, wherein said shell comprises a cationic polymer crosslinked by the addition of crosslinker and adhered to hydrogel-forming polymer obtainable by applying a coating solution, containing both a cationic polymer and crosslinker, to hydrogel-forming polymer having a residual water content of less than 10 w %, their production and use.

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3. Document ID: US 20040039360 A1

AB: The present invention relates to absorbent cores for absorbent articles, which are intended to receive and retain bodily discharges such as urine. Such articles are disposable hygiene articles like baby diapers, training pants, adult incontinence articles, feminine care articles and the like. The improvement essentially is based on the recognition that replacing most or all of the cushioning fibrous absorbent material in an absorbent core by a liquid storage material capable of retaining liquid while maintaining or improving acquisition behavior is desirable as the

reduction in cushioning is more than compensated by the gain in comfort. The comfort however can only be achieved if the more fundamental requirements of a diaper in respect to liquid handling are satisfied or improved. Especially if this liquid handling performance is improved beyond the performance of conventional absorbent structures in order to allow creation of thinner and drier absorbent articles, the users of such articles would experience them as providing a more than expected comfort improvement relative to the thinness gain. To provide such absorbent cores and articles made therewith only became possible with the development of new highly absorbent gel materials capable of acquiring, conducting, and storing liquids in here-to-fore unexpected perfection at super absorbent polymer concentrations, which are unknown today. The second aspect allowing this breakthrough development is the ability to maintain the comfort and performance of such high super absorbent polymer concentration articles during the full usage cycle of the article, from dry to fully loaded, especially by improving the ability of the cores to withstand the forces experienced by such articles during use. This ability to remain intact is also often referred to as wet integrity of the core and its improvement is an important objective of the present invention.

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4. Document ID: US 20030135176 A1

AB: An apparatus and method for depositing particulate matter into a supply of fibrous material are disclosed. The apparatus has a feed tray having an outlet positioned above a moving supply of fibrous material. A motor is coupled to the feed tray for vibrating the feed tray. When the motor vibrates the feed tray particulate matter in the feed tray is deposited onto the supply of fibrous material, and when the motor does not vibrate the feed tray substantially no particulate matter in the feed tray is deposited onto the supply of fibrous material. The feed tray may have a gate spaced above the pan, behind which particulate matter is held when the motor is not vibrating.

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5. Document ID: US 20030134559 A1

AB: An apparatus and method for dry forming absorbent cores are disclosed. The apparatus has a rotatable drum having a substantially cylindrical surface. A vacuum surface having one or more holes is located substantially circumferentially around at least a portion of the substantially cylindrical surface. A vacuum chamber is located within the rotatable drum. The vacuum chamber has one or more vacuum passages forming a vacuum zone subadjacent at least a portion of the vacuum surface. A first casing sheet is supplied to overlie the vacuum surface at a first location, and a fibrous material is supplied to overlie the first casing sheet at a second location. A supply of particulate matter is deposited onto the fibrous material at a third location, and a second casing sheet is supplied to overlie the first casing sheet, fibrous material and

particulate matter at a fourth location, thereby forming an absorbent core composite.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Des](#)

6. Document ID: US 20030130638 A1

AB: An apparatus and method for depositing particulate matter onto a supply of absorbent core fibrous substrate material are disclosed. The apparatus has a feed tray that has an inlet for receiving a supply of particulate matter. At least part of a lower pan of the feed tray is a slideable shuttle pan that has an outlet edge located near a supply of absorbent core fibrous substrate material that is moving in a machine direction. The supply of particulate matter passes over the outlet edge to exit the feed tray. A mechanism operates the shuttle pan through a range of motion having a forward stroke and a backward stroke. During the forward stroke, the outlet edge follows the supply of absorbent core fibrous substrate material.

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7. Document ID: US 6832905 B2

AB: An apparatus and method for dry forming absorbent cores are disclosed. The apparatus has a rotatable drum having a substantially cylindrical surface. A vacuum surface having one or more holes is located substantially circumferentially around at least a portion of the substantially cylindrical surface. A vacuum chamber is located within the rotatable drum. The vacuum chamber has one or more vacuum passages forming a vacuum zone subadjacent at least a portion of the vacuum surface. A first casing sheet is supplied to overlie the vacuum surface at a first location, and a fibrous material is supplied to overlie the first casing sheet at a second location. A supply of particulate matter is deposited onto the fibrous material at a third location, and a second casing sheet is supplied to overlie the first casing sheet, fibrous material and particulate matter at a fourth location, thereby forming an absorbent core composite.

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8. Document ID: CN 1678358 A, US 20040039360 A1, EP 1393757 A1, WO 2004018007 A1, EP 1430912 A1, AU 2003262855 A1, EP 1393757 B1, DE 60201601 E, MX 2005001391 A1, DE 60201601 T2, JP 2005536292 W

AB: NOVELTY - An absorbent core for absorbent incontinence articles, e.g. baby diapers, contains a super absorbent gelling material

in the form of particles having surface coating with a partially hydrolyzable cationic polymer. The coating is less than 10 wt.%. The super absorbent gelling material is at least 60 wt.%.

DETAILED DESCRIPTION - An absorbent core for absorbent incontinence articles, e.g. baby diapers, comprises a super absorbent gelling material in the form of particles. The particles have a longest and a smallest dimension with a particulate ratio of longest to smallest particle dimension of 1-5. They are provided with a surface cross-linking to provide the particles with an individual particle stability such that the absorbent gel material (AGM) super absorbent gelling material has a measured saline flow conductivity (SFC) of at least 30 units. They further have a non-covalently bonded surface coating with a partially hydrolyzable cationic polymer, such that the super absorbent gelling material has a measured ball burst strength (BBS) of more than 80 g of force after 30 minutes and a BBS after 16 hours of at least 50% of the BBS after 30 minutes. The coating is less than 10 wt.%. The super absorbent gelling material is at least 60 wt.%.

USE - For absorbent incontinence articles, e.g. baby diapers or adult incontinence articles, which can receive and retain bodily discharges, such as urine (claimed).

ADVANTAGE - The inventive absorbent core has reduced thickness and improved liquid handling and retention performance.

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Terms	Documents
L4 and BBS	8

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